

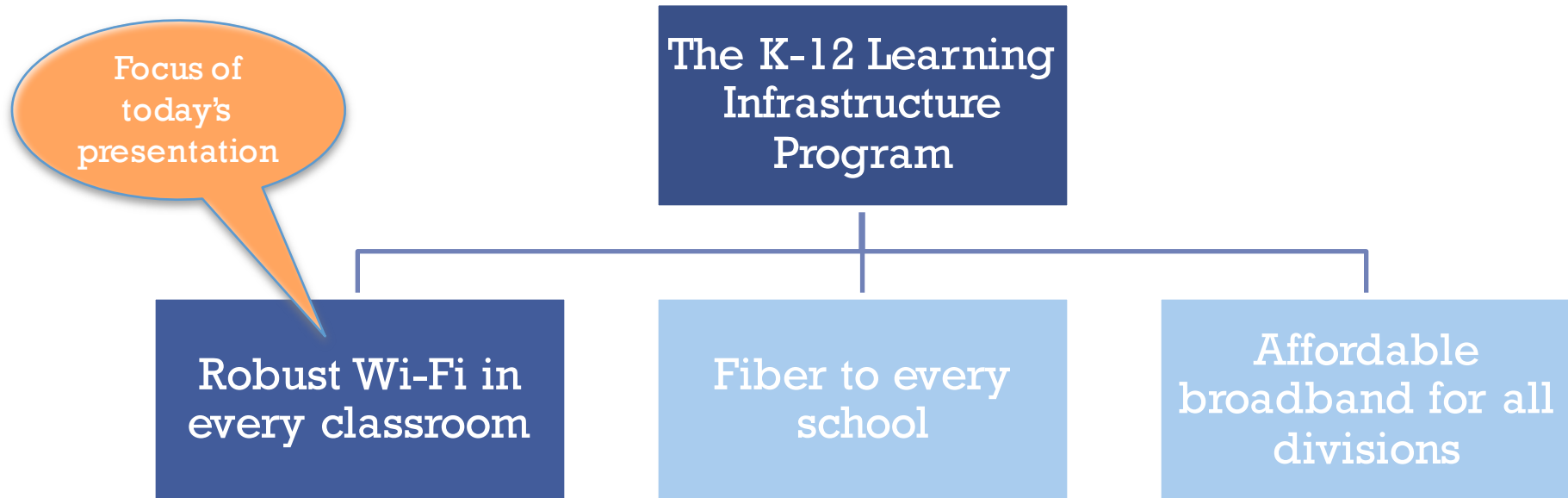
Introductory Webinar:
The K-12 Learning Infrastructure
Program & Wi-Fi Upgrade Initiative

December 2, 2015



The Project

This year, the Department of Education is working to ensure that all divisions have the network infrastructure needed to support digital learning in their classrooms.





Sequence

- The Survey
- The Wi-Fi Upgrade Initiative



The Survey

The Friday Institute issued a survey to all divisions to understand more about the current status of wireless Internet in Virginia schools.

+ Survey Overview

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Responses to Survey

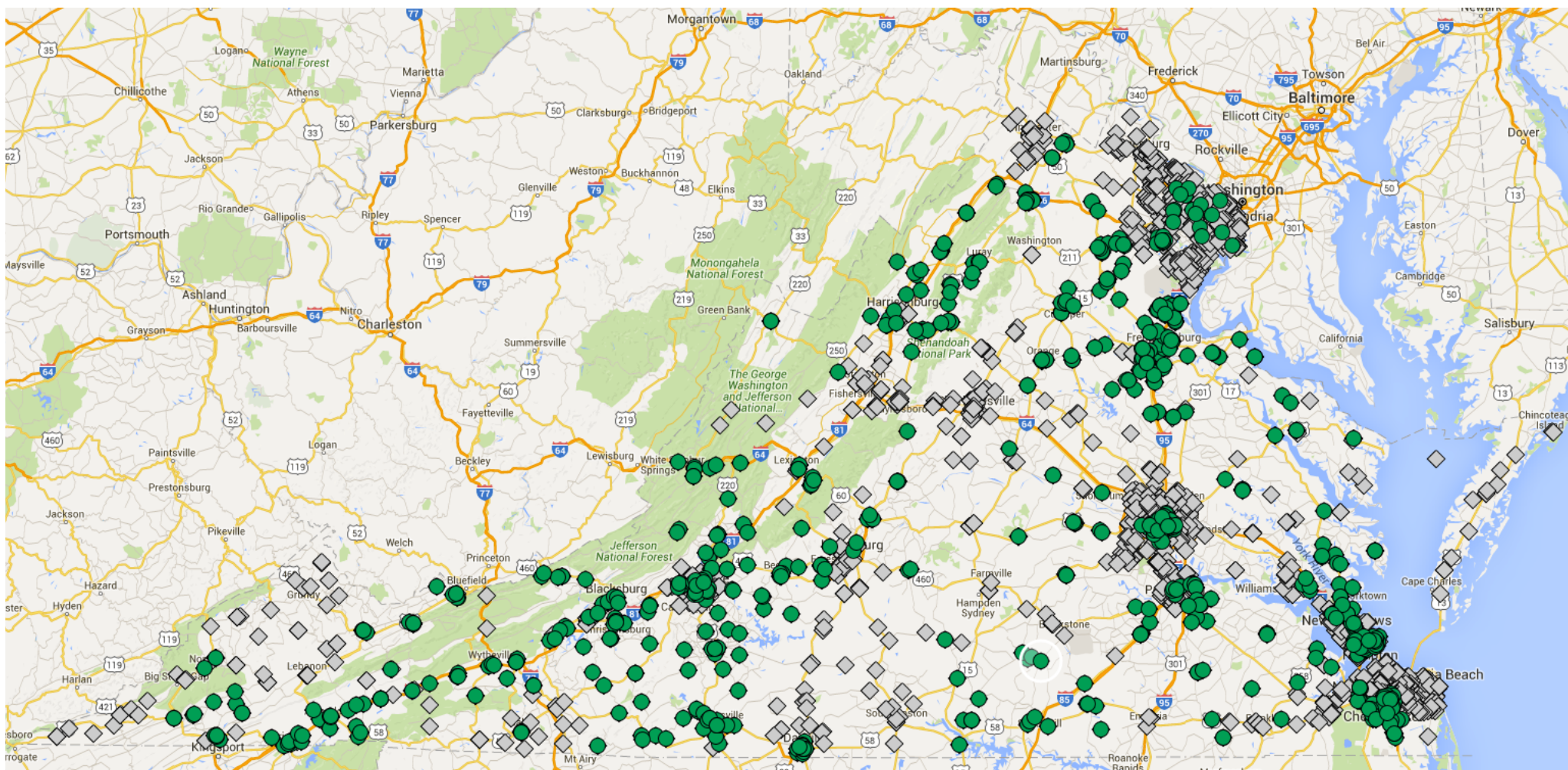
- Data from 80 divisions – 989 schools and 43,419 classrooms
- This represents:
 - 53% of the 1,857 schools in VA
 - 32% of the ADM
- *Some divisions did not report school code and number of classrooms*

Data Used to Model Program Budget

- Assuming:
 - **90,190 classrooms** (based on Oct. 19 survey)
 - **1,279,739 ADM** (from DOE 2015 membership statistics)



Schools Having Completed Survey by Oct 30



+ Wireless Data Reported (Oct 30)

Survey respondents indicate that fewer than 10% of schools reported more than 1.2 access points per classroom.

Access Points

- 37,858 APs
- 14,620 APs were installed after 2013 (39%)
- Fairfax reports 10,809 APs

Current state of Wi-Fi

- Wide variety of AP vendors currently in use
- 18.5% of schools report better than 1.0 AP per classroom
- 9.6% of schools report better than 1.2 AP per classroom

+ Extrapolation from Survey Data

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Virginia has a great opportunity for collective purchasing.

Schools and Classrooms

Number of schools	1,857
Number of classrooms	90,190
Number of schools with 40+ classrooms	1,046
Number of schools with 90+ classrooms	145

Wireless

Number of APs required to meet State standard	112,738
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Cable

Number of Cat5 runs to upgrade	29,397
Number of new Cat6A runs needed	18,938

The Wi-Fi Upgrade Initiative

The Virginia Department of Education (VDoE) is partnering with EducationSuperHighway and the Friday Institute to help upgrade Wi-Fi and internal connections in classrooms across Virginia.

The goal is to create a sustainable Wi-Fi upgrade initiative available to all divisions by establishing statewide contracts for common internal network equipment. The DoE is also pursuing funding for the division's non-E-rate cost, and to staff centralized division support for E-rate, network security, and engineering.

+ Why participate?

What this means for you

- Divisions will have the ability to participate in a statewide 470 for the upcoming e-rate cycle
- The contract will offer a range of options for switches, access points, and other e-rate Category 2 eligible equipment

Benefits to divisions

- Freedom from the administrative overhead of the RFP process
- Access to the buying power and volume discounts of the state
- Menu of options and choices across switches, access points, and other E-rate Category 2 eligible equipment

+ Eligibility

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- All K-12 public school districts are eligible
- The school must file for e-rate
- The school must purchase equipment according to state standards
- However, participation is optional. Divisions can either choose to buy off the master contracts, OR file their own 470

+ Process

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RFP

- RFP is released
- State files 470

Selection

- Vendors are selected
- Division-led evaluation committee awards contracts

Mini-Bid

- Divisions evaluate their options according to a mini-bid process

471s

- Divisions file 471s against state contract

+ Project Team Members

Core Team

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Virginia 
is for school Wi-Fi.